

Normalized Tables (3NF)

ORDERS Table (Original)

order_ID	customer_name	product_name	quantity	unit_price
1	John Smith	pencil	10	1.50
2	Jane Smith	eraser	5	0.75
3	John Smith	ruler	2	0.50

EMPLOYEES Table (Original)

employee_ID	employee_name	department	manager	phone#	address
1	John Moore	Sales	Jane Smith	416-123-4567	12 Main St
2	Jane Moore	Marketing	John Moore	416-123-6789	45 Park Ave
3	Jack Smith	IT	John Moore	416-123-8910	89 Elm St

1. Normalized Tables

Customers Table

customer_ID	customer_name
1	John Smith
2	Jane Smith

Products Table

product_ID	product_name
1	pencil
2	eraser
3	ruler

ContactInfo Table

employee_ID	phone_number	address
1	416-123-4567	12 Main St
2	416-123-6789	45 Park Ave

3	416-123-8910	89 Elm St
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Orders Table

order_ID	order_date	customer_ID
1	2025-02-10	1
2	2025-02-10	2

OrderDetails Table

order_ID	product_ID	quantity	unit_price
1	1	10	1.50
2	2	5	0.75
1	3	2	0.50

Departments Table

department_ID	department_name
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1	Sales
2	Marketing
3	IT

Managers Table

manager_ID	manager_name
1	Jane Smith
2	John Moore

Employees Table

employee_ID	employee_name
1	John Moore
2	Jane Moore
3	Jack Smith

Normalized ERD

